## RESOURCE PERSON

### DAY 01 (Keynote session)

**Ms. Aswini Priyanka Rajendran**
Founder and CEO, ASSR Emphorium,
P T Rajan Salai, K K Nagar,
Chennai - 600 078

### DAY 01 (Hands on Session)

**Mr. Balachander S**
Assistant Professor,
DSBS, School of Computing, SRMIST,
Kattankulathur.

### DAY 02 (Hands on Session)

**Mr. Mukundan ATM**
Senior Vice President,
Global Head of Product & Platform,
Volante Technologies.

## PROJECT DEMO JUDGES

**Mr. Mukundan ATM**
Senior Vice President,
Global Head of Product & Platform,
Volante Technologies.

**Dr. A.Suresh**
Associate Professor,
Department of Networking and Communications,
School of Computing, SRMIST, Kattankulathur.

**Dr. S.Ganesh Kumar**
Professor,
Department of Data Science and Business systems,
School of Computing, SRMIST, Kattankulathur.

## CHIEF PATRONS

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**Dr. P.Ravi Pachamoothoo,** Pro-Chancellor (Administration), SRMIST.
**Dr. P.Sathyanarayanan,** Pro-Chancellor (Academics), SRMIST.
**Dr. R.Shivakumar,** Vice President, SRMIST.

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**Dr. S.Ponnusamy,** Registrar, SRMIST.
**Dr. T.V.Gopal,** Dean (CET), SRMIST.
**Dr. B.Neppolian,** Dean (Research), SRMIST.

## ADVISORY BOARD MEMBERS

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Professor & Chairperson, School of Computing, SRMIST.
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Professor & Associate Chair, School of Computing, SRMIST.
**Dr. M.Lakshmi,**
Professor & Head, Networking and Communications, SRMIST.

## CONVENORS

**Dr. B.Balakiruthiga,**
Assistant Professor, Networking and Communications, SRMIST.
**Dr. S.A.Angayarkanni,**
Assistant Professor, Networking and Communications, SRMIST.
**Dr. V.Rajaram,**
Associate Professor, Networking and Communications, SRMIST.

## CONTACT

**Dr. V.Rajaram**
Associate Professor,
Department of Networking and Communications, SRMIST.
**Mob: 9840431173 | E-Mail: rajaramv@srmist.edu.in**

## REGISTRATION FEE DETAILS

Participant Registration (PR) : **Rs.300 /-**
Contestant Registration (CR) : **Rs.300 /-** (after selection of abstract)
( Lunch and Refreshments for Day 1 and Day 2 )

**REGISTRATION LINK**
https://forms.gle/DvewjVPonknJ4Uk57

REGISTER NOW!

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative) | School of Computing | NWC | SRM Institute of Science & Technology

NAAC A++ | Category I with 12B Status | nirf (2024) 12th Ranked University | QS (2025) World Ranking one among 46 Indian Universities | THE World University Rankings (2024) World Ranking one among 91 Indian Universities | QS 4 Star Rating VERY GOOD QS 4 Star Rated Globally | Shanghai Ranking (2024) World Ranking Ranked 5-7 in Indian Universities

**SRM Institute of Science and Technology**
**School of Computing**
**Department of Networking and Communications**

# National Level Seminar on

# BLOCKCHAIN TECHNOLOGY FOR IOT: AN INFORMATION SECURITY PERSPECTIVE

**29th & 30th JANUARY 2025**

## Venue

**TP404 & 405 Smart Class Room,**
4th Floor, Techpark.

## ORGANIZED BY

Department of Networking and Communications
School of Computing,
College of Engineering and Technology (CET)
SRM Institute of Science and Technology,
Kattankulathur - 603 203.

## ABOUT THE INSTITUTION

SRM Institute of Science & Technology was initially started as SRM Engineering College in the academic year 1985-1986 at Kattankulathur, Kancheepuram District, Tamil Nadu. SRMIST was established in the year 2003 and the Faculty of Engineering and Technology (E&T) was carved out, which now consists of all the schools and departments related to Engineering and Technology including Architecture and Interior Design in four different campuses namely Kattankulathur, Ramapuram, Ramapuram Part and Modinagar (near New Delhi). The other faculty under SRMIST includes Medical & Health Sciences, Science and Humanities, Management, Law and Agriculture Sciences. The main sylvan campus of Kattankulathur consists of a lush green environment with a built up area of 1,70,000sq.m for Laboratories, Workshops, Library, Classrooms, Technology Parks etc. Excellent infrastructure and world class facilities in the institution help the students and faculty members to pursue their research in an efficient manner. For further information about our institution, please visit the following **URL: www.srmist.edu.in.**

## ABOUT THE DEPARTMENT

Department of Networking and Communications under School of Computing intend to meet the expectations of the aspiring students and to add more value to the degrees offered. The Department ensures to provide quality and value-laden education for students in the traditional and contemporary areas of Cloud Computing, Computer Networks, Cyber Security, Information Technology and Internet of Things. The programs are introduced in partnership with reputed IT companies like Amazon Web services, K7 Security, Virtusa etc. The department consists of a medley of faculty members with industrial and academic experience. The Department's keen focus is towards "networks" domain specific and specialization-based placement drives for its students. The department inculcates entrepreneurial skills in budding aspirants to pitch their innovative ideas through SRM Innovation and Incubation Center. Our International and alumni connect intrigue in bridging the gap between the trio: Academics - Industry - Research.

## ABOUT THE SEMINAR

The world of Internet of Things (IoT) is rapidly evolving, connecting billions of devices across various industries, from healthcare and ransportation to agriculture and smart cities. While IoT promises unprecedented levels of connectivity and automation, it also brings significant security concerns, particularly in terms of device authentication, data integrity, and privacy.

Blockchain technology, with its decentralized, immutable, and transparent nature, has emerged as a potential solution to address these challenges. However, IoT systems are not just isolated networks; they are often connected to cloud platforms and rely heavily on communication through complex network infrastructures. Thus, the integration of blockchain with IoT, cloud computing, and network infrastructures offers a comprehensive solution to enhance security, scalability, and trust within IoT ecosystems.

The Two Days National Level Seminar on Blockchain Technology for IoT: An Information Security Perspective will delve into how blockchain can be leveraged to secure IoT networks, cloud infrastructures, and interconnected systems. This seminar will provide a platform to explore how blockchain enhances security in IoT networks, how it can be applied in cloud environments for data integrity and privacy, and how it can solve scalability and interoperability challenges in large-scale IoT systems.

## SEMINAR OBJECTIVES

| S.No | Seminar Objectives | Objective Description |
|---|---|---|
| 1 | To explore the role of Blockchain in enhancing security within IoT networks and cloud infrastructures. | Focus on how blockchain enhances device authentication, data integrity, and privacy in IoT and cloud systems. |
| 2 | Analyse challenges and solutions for integrating blockchain with IoT and cloud networks. | Examine technical, scalability, and energy efficiency challenges in integrating blockchain with IoT and cloud networks and discuss solutions. |
| 3 | Demonstrate practical use cases of blockchain securing IoT devices, networks, and cloud environments. | Showcase practical blockchain applications in securing IoT systems in industries like healthcare, smart cities, and supply chain management. |
| 4 | Facilitate collaboration among academia, industry, and government to advance blockchain-based IoT security. | Encourage partnerships, research collaborations, and adoption of blockchain security standards for IoT across sectors. |

## TARGET AUDIENCE

❖ UG and PG Students ❖ Research Scholars

## SESSIONS PLANNED

### DAY 01: SESSION AND HANDS-ON

- Introduction to Blockchain in IOT Security
- How Security and privacy enabled in Blockchain based IOT Systems?
- Interoperability in Blockchain-based IoT Systems
- IPFS Block chain in IOT network
- Real world use case

### DAY 02:

- Project Demo
- Session on "Blockchain for IoT Data Integrity and Auditing"

## THEMES FOR STUDENTS PROJECT DEMO

- Blockchain-Enhanced IoT Network Security: Distributed Threat Detection
- Blockchain-Based Secure IoT Network Communication Protocol
- Decentralized Network Management for IoT using Blockchain
- Blockchain-Based IoT Network Access Control System
- IoT Network Privacy and Data Protection Using Blockchain
- Blockchain-Enabled IoT Network Scalability and Efficiency
- Blockchain-Powered IoT Device Roaming and Network Interoperability
- IoT Network Consensus for Device Collaboration Using Blockchain
- Blockchain-Backed IoT Network Data Integrity and Provenance

## CASH PRIZE FOR PROJECT DEMO